



PACBRAKE APPLICATION GUIDE

ENGINE BRAKE PARTS & KITS

UPDATED: July 7, 2023

PACBRAKE ENGINE BRAKE PARTS LIST FOR CATERPILLAR ENGINES

PACBRAKE PART #	DESCRIPTION
CATERPILLAR PARTS	
P00813CT	HARNES
P00825CT	HARNES-COE, CAT
P01030	SPRING RETAINER
P01040	TERMINAL
P01081	SOLENOID SEAL - UPPER
P01082	SOLENOID SEAL - CENTER
P01083	SOLENOID SEAL - LOWER
P01218	SWITCH
P01244	MACHINE SCREW
P01265	SCREW
P01282	SOLENOID SCREEN
P01283	SOLENOID RETAINER
P01304	TOGGLE SWITCH- ON/OFF
P01305	SWITCH PLATE - OFF
P01492	CAPSCREW - 1/4 X 1/2 HEXHEAD
P01495	CLUTCH SWITCH ASSEMBLY
P01497	SWITCH SPRING
P01500	CONTROL VALVE
P01512	TERMINAL
P01531	SWITCH BRACKET
P01534	DIODE
P01537	MACHINE SCREW
P01538	WASHER - #6 PLATED
P01558	MACHINE SCREW 6-32 X 1/4
P01559	LOCK WASHER
P01722	CAPSCREW, 10-24 X 1/4
P02183	SWITCH LEVER
P02186	NUT - 1/4" HEX NF
P02190	FLAT WASHER - 1/4"
P02411	O-RING
P01244	SUPERSEPED TO P0124 - MACHINE SCREW 6-32 X 1 RH
P02957	TOGGLE SWITCH - 1/2/3
P02970	TOGGLE SWITCH ASSEMBLY
P03586	TOGGLE SWITCH HI/LOW/OFF
P03776	TOGGLE SWITCH ASSEMBLY
P03777	SWITCH PLATE - HI/LOW/OFF
P03790	CAPSCREW - 1/4-20 X 3/8
P39008	ENGINE RETARDER HOUSING - P39B
P03795	CAPSCREW - 1/4-20 X 1/2
P04205	SOLENOID - 12 VOLT
P04205 - 24	SOLENOID - 24 VOLT
P05610	RETAINER - CAT
P05611	SNAP RING - CAT
P05612	MASTER PISTON
P05639	SEAL
P05647	OIL SUPPLY ADAPTER
P05653	SUPERSEDED TO C11819
P05654	FLANGED NUT
P05656	PLAIN WASHER - CAT
P07450	SOLENOID HARNES - CAT

PACBRAKE PART #	DESCRIPTION
CATERPILLAR PARTS cont'	
P07500	INNER CONTROL VALVE SPRING
P07832	CENTER SLAVE SPRING - CAT
P07833	OUTER SLAVE SPRING - CAT
P09353	FLANGED NUT
P09355	JAMNUT 1/2 NF
P11433	INNER SLAVE SPRING
P11434	OUTER CONTROL VALVE SPRING
P11435	INNER CONTROL VALVE SPRING
P11494	SOLENOID SOCKET
P11722	BREATHER HOSE - CATERPILLAR
P11841	MASTER PISTON SPRING
P11930	CONTROL VALVE
P12246A	WOBBLE SWITCH
P12246T	WOBBLE SWITCH
P12261T	WOBBLE SWITCH & BRACKET GROUP
P12269	MOUNTING BRACKET
P13158	MASTER PISTON SPRING - FLAT
P13469	CROSSHEAD
P14908	CLAMP
P15561	SNAP RING
P16505	SUPERSEDED TO P01030 - ACCUMULATOR WASHER
P34601	TUNE UP KIT - CAT 3406/B/C
P34606	PAFLASH ADJUSTING SCREW - WHITE
P34620	HEX NUT - 7/16-18 GR8
P34625	SUPPORT BRACKET WASHER
P34628	HEX NUT 3/4
P34630	MOUNTING WASHER - P36
P34633	WOBBLE SWITCH
P34639	SWITCH
P34643	SUPPORT BASE - P36
P34647	STUD-SUPPORT BASE
P34648	SOLENOID HARNES - CATERPILLAR
P34650	CONTROL VALVE COVER
P34654	O-RING - VITON
P34655	TERMINAL
P34656	TERMINAL ADAPTER
P34670	FELLER GAUGE - 080"
P34675	FEELER GAUGE - .102"-P37
P38015	PLAIN WASHER
P39008	ENGINE RETARDER HOUSING - P39B
P39009	SUPERSEDED TO P39008
P39010	TUNE-UP KIT (P39)
P39015	SOLENOID 12 VOLT D/L
P39030	SLAVE PISTON
P39032	SLAVE PISTON SPRING
P39037	SLAVE RETAINER P39B
P39038	SNAP RING
P39040	MASTER PISTON
P39041	MASTER RETAINER P39
P39042	SNAP RING



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PACBRAKE ENGINE BRAKE PARTS LIST FOR CATERPILLAR & CUMMINS ENGINES

PACBRAKE PART #	DESCRIPTION
CATERPILLAR PARTS cont'	
P39044	MASTER CLIP – P39
P39045	SUPERCEDED TO P39168
P39046	MASTER LINK SPRING
P39048	SUPPORT TUBE – P39
P39051	PAFLASH ADJUSTING SCREW – P14
P39070	ATTACHING PARTS GROUP – P39
P39072	CAPSCREW – P39 SERIES
P39073	NUT – HEAVY HEX
P39074	WASHER – P39
P39076	SUPERSEDED TO P39084
P39077	STUD – P39
P39078	WIRE CLIP – P39
P39079	SUPERSEDED TO P39084
P39084	PAFLASH ADJUSTING SCREW – P39B
P39100	INNER CONTROL VALVE SPRING
P39135	SLAVE PISTON LINK
P39148	MASTER PISTON – P39D
P39159	SET SCREW – P39D
P39160	NUT 3/8-24, P39D
P39161	SLAVE LINK P39D
P39162	SLAVE PISTON ASSEMBLY
P39163	SLAVE PISTON RETAINER
P39164	INNER SLAVE SPRING – P39D
P39168	MASTER LINK – P39B/D/E
P60045	RELAY – 12 VOLT CN
P60100	SELF DRILL & TAP SCREW
CUMMINS PARTS	
P00807C	HARNESS
P00821C	HARNESS
P01017	MASTER PISTON – 7/8"
P01022	SLAVE PISTON SPRING
P01023	RETAINING RING
P01030	SPRING RETAINER
P01040	TERMINAL
P01081	SOLENOID SEAL – UPPER
P01082	SOLENOID SEAL – CENTER
P01083	SOLENOID SEAL – LOWER
P01094	NUT – 1/2" NC, HEAVY HEX
P01178	SWITCH BRACKET
P01180	SWITCH COVER
P01181	NUT – HEX
P01199	STUD ASSY
P01218	SWITCH
P01219	THROTTLE SWITCH ASSEMBLY
P01234	STUD SPACER
P01244	MACHINE SCREW
P01265	SCREW
P01282	SOLENOID SCREEN
P01283	SOLENOID RETAINER
P01304	TOGGLE SWITCH – ON/OFF

PACBRAKE PART #	DESCRIPTION
CUMMINS PARTS cont'	
P01305	SWITCH PLATE – OFF
P14007	ENGINE RETARDER HOUSING – P14
P14009	ENGINE RETARDER HOUSING – P14A
P01492	CAPSCREW – 1/4 X 1/2 HEXHEAD
P01495	CLUTCH SWITCH ASSEMBLY
P01497	SWITCH SPRING
P01512	TERMINAL
P01519	OUTER CONTROL VALVE SPRING
P01531	SWITCH BRACKET
P01534	DIODE
P01538	WASHER – #6 PLATED
P01558	MACHINE SCREW 6-32 X 1/4
P01559	LOCK WASHER
P01722	CAPSCREW, 10-24 X 1/4
P02183	SWITCH LEVER
P02186	NUT – 1/4" HEX NF
P02190	FLAT WASHER - 1/4"
P02299	TERMINAL ASSEMBLY
P02390	SOLENOID HARNESS – CUMMINS
P02514	STUD WASHER
P02610P	TEAR-OFF GASKET (PAPER)
P02744	MACHINE SCREW 6-32 X 1 RH
P02856	STUD ASSEMBLY
P02957	TOGGLE SWITCH – 1/2/3
P02969	OIL SUPPLY SCREW
P02970	TOGGLE SWITCH ASSEMBLY
P03790	CAPSCREW – 1/4-20 X 3/8
P03795	CAPSCREW – 1/4-20 X 1/2
P04089	MASTER PISTON
P04136	CONTROL VALVE COVER
P04205	SOLENOID – 12VOLT
P04205-24	SOLENOID – 24VOLT
P04841	VALVE COVER GASKET (CORK)
P07447	MASTER PISTON SPRING
P07500	INNER CONTROL VALVE SPRING
P07623	SLAVE PISTON – CUMMINS
P08532	VALVE COVER GASKET (CORK)
P08895	SLAVE PISTON RETAINER
P09353	FLANGED NUT
P09355	JAMNUT 1/2 NF
P09916	SET SCREW
P10180	SEAL – CUMMINS
P11436	OUTER CONTROL VALVE SPRING
P11437	INNER CONTROL VALVE SPRING
P11470	SPACER STUD – CAT
P11494	SOLENOID SOCKET
P11930	CONTROL VALVE
P12246A	WOBBLE SWITCH
P12246T	WOBBLE SWITCH
P12261T	WOBBLE SWITCH & BRACKET GROUP



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PACBRAKE ENGINE BRAKE PARTS LIST FOR CUMMINS & DETROIT ENGINES

PACBRAKE PART #	DESCRIPTION
CUMMINS PARTS cont'	
P12269	MOUNTING BRACKET
P12504	ATTACHING GROUP
P13294	GASKET - CUMMINS (METAL)
P14007	ENGINE RETARDER HOUSING - P14
P14008	PACLASH ADJUSTING SCREW - P14
P14009	ENGINE RETARDER HOUSING - P14A
P14011	ENGINE RETARDER HOUSING - P14B
P14013	TUNE-UP KIT P14/A/B
P14014	ENGINE BRAKE BASE KIT P-14 N14PLUS 12V S/L (Check CPL #s)
P14015	MOUNTING GROUP P14
P14018	ENGINE BRAKE BASE KIT P14A 94N14 12V S/L (Check CPL #s)
P14022	ENGINE BRAKE BASE KIT P14B 94N14 12V S/L (Check CPL #s)
P14035	ENGINE CONTROL GROUP - P14
P14068	SWITCH GROUP
P14100	COLLAR
P14848	GASKET - P38 (METAL)
P14873	CROSSHEAD
P14908	CLAMP
P15561	SNAP RING
P16846	GASKET (METAL)
P16846-3	GASKET (METAL 3 PACK)
P18792	MASTER PISTON SPRING - 455 B/C
P19103	SLAVE PISTON - N14
P19104	OUTER SLAVE PISTON SPRING - N14
P19105	INNER SLAVE PISTON SPRING - N14
P19139	SLAVE PISTON SPRING RETAINER
P20800	HARNES P14
P20925	MASTER PISTON ASSEMBLY - N14
P34655	TERMINAL
P38011	TUNE-UP KIT CUMMINS 88NT
P38015	PLAIN WASHER
P38020	MASTER PISTON
P38025	OIL SUPPLY SCREW P-38
P38045	INJECTOR ADJUSTING SCREW
P38070	PACLASH ADJUSTING SCREW P-38
P40012	GASKET KIT - CUMMINS (CORK)
P40022	GASKET KIT - CUMMINS (METAL)
P40024	TUNE-UP KIT WITH GASKETS
P40055	SLAVE PISTON SPRING
P40060	SLAVE PISTON P40
P40070	PACLASH ADJUSTING SCREW - BLUE
P40071	PACLASH ADJUSTING SCREW
P40072	PACLASH ADJUSTING SCREW - RED
P60045	RELAY - 12 VOLT CN
P60100	SELF DRILL & TAP SCREW
P60125	SWITCH PLATE

PACBRAKE PART #	DESCRIPTION
DETROIT PARTS	
P01040	TERMINAL
P01081	SOLENOID SEAL - UPPER
P01082	SOLENOID SEAL - CENTER
P01083	SOLENOID SEAL - LOWER
P01218	SWITCH
P01244	MACHINE SCREW
P01265	SCREW
P01282	SOLENOID SCREEN
P01283	SOLENOID RETAINER
P01287	OIL CONNECTOR
P01304	TOGGLE SWITCH - ON/OFF
P01305	SWITCH PLATE - OFF
P01492	CAPSCREW - 1/4 X 1/2 HEXHEAD
P01495	CLUTCH SWITCH ASSEMBLY
P01497	SWITCH SPRING
P01500	CONTROL VALVE
P01512	TERMINAL
P01531	SWITCH BRACKET
P01534	DIODE
P01538	WASHER - #6 PLATED
P01558	MACHINE SCREW 6-32 X 1/4
P01559	LOCK WASHER
P01722	CAPSCREW, 10-24 X 1/4
P02183	SWITCH LEVER
P02186	NUT - 1/4" HEX NF
P02190	FLAT WASHER - 1/4"
P02744	MACHINE SCREW 6-32 X 1 RH
P02957	TOGGLE SWITCH - 1/2/3
P02970	TOGGLE SWITCH ASSEMBLY
P03790	CAPSCREW 1/4-20 X 3/8
P03795	CAPSCREW 1/4-20 X 1/2
P04205	SOLENOID - 12 VOLT
P04205 - 24	SOLENOID - 24 VOLT
P07500	INNER CONTROL VALVE SPRING
P09353	FLANGED NUT
P09355	JAMNUT 1/2 NF
P11434	OUTER CONTROL VALVE SPRING
P11435	INNER CONTROL VALVE SPRING
P11494	SOLENOID SOCKET
P12246A	WOBBLE SWITCH
P12246T	WOBBLE SWITCH
P12261T	WOBBLE SWITCH & BRACKET GROUP
P12269	MOUNTING BRACKET
P14908	CLAMP
P15561	SNAP RING
P17658	MASTER PISTON SPRING - 760A/765
P34650	CONTROL VALVE COVER
P38015	PLAIN WASHER
P50007	FLANGE NUT
P50072	PACLASH ADJUSTING SCREW - P50
P50150	CONTROL GROUP - P50 DDECII





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PACBRAKE PART #	DESCRIPTION
DETROIT PARTS cont'	
P50155	CONTROL GROUP – P50 DDEC III
P60004	OUTER SLAVE PISTON – P63C
P60008	SLAVE PISTON
P60013	FLAT SPRING – P63/A/B/C
P60016	MASTER PISTON
P60019	SPRING PLATE
P60021	CAPSCREW – 12PT
P60022	WASHER
P60023	SPACER BAR
P60029	INNER SLAVE PISTON – LARGE
P60030	BRIDGE SPRING
P60031	MASTER PISTON – LARGE
P60045	RELAY - 12 VOLT CN
P60046	HARNES – DDEC
P60047	HARNES – THRU HEAD
P60048	HARNES – UNDER COVER
P60049	JUMPER WIRE – P63
P60050	ATTACHING PARTS GROUP P61/P63
P60051	HARNES – UNDER COVER – P -50
P60053	CONTROL VALVE SPRING – P63
P60054	ACCUMULATOR SPRING – P63
P60059	ACCUMULATOR SPRING – INNER P63
P60060	ACCUMULATOR PISTON – P50/61/63
P60061	OUTER ACCUMULATOR SPRING – P63
P60063	HARNES – THRU HEAD, DDEC III
P60064	MASTER PISTON – P63
P60065	OUTER SLAVE PISTON – LARGE
P60066	INNER SLAVE PISTON – LARGE
P60070	SLAVE PISTON BRIDGE – SERIES 60
P60073	PAFLASH ADJUSTING SCREW
P60085	HARNES EXTENSION – COE, DDEC II
P60086	BRIDGE SPRING RETAINER P63
P60090	INNER SLAVE SPRING – P63C
P60096	SHOULDER BOLT – P63C
P60100	SELF DRILL & TAP SCREW
P60101	TUNE UP KIT – P61/P63/A/B/C
P60122	PAFLASH ADJUSTING SCREW – P61
P60125	SWITCH PLATE
P60150	CONTROL GROUP – DDEC II
P60154	CONTROL GROUP – DDC ENABLE
P60155	CONTROL GROUP – DDEC III
P63012	RETROFIT KIT – P50-P63B
P63013	RETROFIT KIT – P63C
P80001	ENGINE RETARDER HOUSING – P80 FRONT
P80002	ENGINE RETARDER HOUSING – P80 REAR
P80003	MOUNTING GROUP – P80/A
P80004	SPACER GROUP P – 80/A
P80010	TUNE-UP KIT – P80
P80011	SLAVE PISTON – 7/8" P80
P80012	SET SCREW, 10-24 X 1/2
P80013	MASTER PISTON SPRING – P80

PACBRAKE PART #	DESCRIPTION
DETROIT PARTS cont'	
P80014	CAPSCREW-M12 X 150MM – P80
P80015	CAPSCREW M12 X 180MM – P80
P80016	WASHER – P80
P80017	RETAINER – P80
P80018	MASTER PISTON – 1", P80
P80019	SPACER – CYLINDER HEAD – P80
P80024	RETAINER – P80
P80026	SET SCREW – 3/8 - 16 X 3/4
P80027	HEX NUT – 3/8 GR8-P80
P80028	ENGINE BRAKE BASE KIT P-80A 12.7L 2001 DDC S60 – 12 VOLT S/L (Check CPL #S)
P80029	RETAINER – P80A
P80031	COMPRESSION SPRING P80A
P80033	LINK – P80A
P80034	RETROFIT KIT – P80
P80035	ADJUSTING SCREW AND NUT P-80A
P80037	TUNE-UP KIT – P80A
P80048	HARNES-UNDER COVER P80
P80086	BRIDGE SPRING RETAINER – P80
P80087	SHOULDER BOLT – 5/16 X 1.5 – P80
P80088	SPRING RETAINER P80A
P80089	INNER BRIDGE SPRING – P80A
P80090	OUTER BRIDGE SPRING – P80A
P80091	SHOULDER BOLT – P80
P80100	UPDATE KIT P-80
P80155	CONTROL GROUP – P80, DDECIV
MACK PARTS	
P01040	TERMINAL
P01081	SOLENOID SEAL-UPPER
P01082	SOLENOID SEAL-CENTER
P01083	SOLENOID SEAL-LOWER
P01218	SWITCH
P01244	MACHINE SCREW
P01265	SCREW
P01282	SOLENOID SCREEN
P01283	SOLENOID RETAINER
P01304	TOGGLE SWITCH – ON/OFF
P01305	SWITCH PLATE – OFF
P01492	CAPSCREW – 1/4 X 1/2 HEXHEAD
P01495	CLUTCH SWITCH ASSEMBLY
P01497	SWITCH SPRING
P01512	TERMINAL
P01531	SWITCH BRACKET
P01534	DIODE
P01537	MACHINE SCREW
P01538	WASHER – #6 PLATED
P01558	MACHINE SCREW 6-32 X 1/4
P01559	LOCK WASHER
P01722	CAPSCREW, 10 -24 X 1/4
P01793	TERMINAL
P02183	SWITCH LEVER



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PACBRAKE PART #	DESCRIPTION
DETROIT PARTS cont'	
P02186	NUT - 1/4" HEX NF
P02190	FLAT WASHER-1/4"
P02744	MACHINE SCREW 6-32 X 1 RH
P03790	CAPSCREW 1/4-20 X 3/8
P03795	CAPSCREW - 1/4-20 X 1/2
P04205	SOLENOID - 12 VOLT
P07500	INNER CONTROL VALVE SPRING
P09353	FLANGED NUT
P09355	JAMNUT 1/2 NF
P11494	SOLENOID SOCKET
P12246A	WOBBLE SWITCH
P12246T	WOBBLE SWITCH
P12261T	WOBBLE SWITCH & BRACKET GROUP
P12269	MOUNTING BRACKET
P14908	CLAMP
P60045	RELAY - 12 VOLT CN
P60100	SELF DRILL & TAP SCREW



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